

In the Claims

Claim 1 (Original): A vehicle sensor fusion architecture including: A plurality of paired input sensors for sensing vehicle environment, each pair including one sensor from a first band of the electromagnetic spectrum and a second sensor from a second band of the electromagnetic spectrum and each sensor providing an electrical sensor output indicative of the vehicle environment; A time tagging module for tagging each electrical sensor output with the time the sensor information was gathered; and A central fusion module coupled to receive said sensor outputs from a paired input sensor and having a logic capability to process the paired input sensor output to generate a fusion output for providing information characterizing the vehicle environment.

Claim 2 (Original): A vehicle sensor fusion architecture as recited in claim 1 wherein said input sensors comprise a visual camera and a radar sensor.

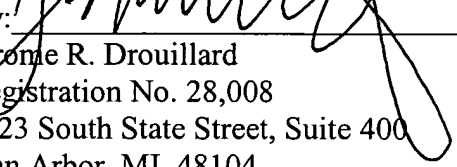
Claim 3 (Original): A vehicle sensor fusion architecture as recited in claim 1 wherein said central fusion module comprises logic means for combining a plurality of paired sensor inputs from a plurality of signals generated by said paired input sensors.

Claim 4 (Original): A vehicle sensor fusion architecture as recited in claim 3 further comprising a time tagging module so that information data can be extrapolated and interpolated to the same point in time for a fusion action combining information to take place.

Claim 5 (Original): A vehicle sensor fusion architecture as recited in claim 4 further comprising a current track file generator, and a comparator for comparing the time tagged data to the current track file data, and an updating means for updating the track files if a match is found.

Claims 6 – 9 (cancelled)

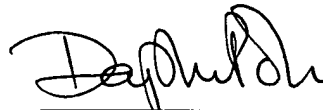
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CERTIFICATE OF MAILING

I hereby certify that the enclosed Amendment is being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 26th day of February 2004.


Daphne Poh